

REMARKS/ARGUMENTS

Reconsideration of this application is requested. Claims 35, 37 and 41-43 are in the case.

I. THE INTERVIEW

This will acknowledge the interview conducted with the Examiner (Mr. Borin) on May 4, 2005, during which the outstanding rejection was discussed. The Examiner's position is that the specification allegedly fails to provide an enabling disclosure with respect to amino acid sequences having at least 95% identity with SEQ ID NO:424. It is applicants' position that the specification does provide such an enabling disclosure. No agreement was reached during the interview.

II. THE 35 U.S.C. §112, FIRST PARAGRAPH, REJECTION

Claims 35, 42 and 43 remain rejected under 35 U.S.C. §112, first paragraph, on alleged lack of enablement grounds. This rejection is respectfully traversed.

As evidence of enablement, attached are copies of sequences from *P gingivalis* strains W83 (Accession No. AAQ65420) and W50 (Accession No. CAA10226.1). These sequences differ from SEQ ID NO:424 by a single amino acid at position 199 which is D in W83 and A in W50 and, therefore, represent enabled sequences having at least 95% identity to SEQ ID NO:424. *P gingivalis* strain W50 is disclosed in the specification at page 16, lines 27-30. Furthermore, the specification provides a discussion of allelic variants at page 13. The claim to a sequence having a sequence identity at least 95% to SEQ ID NO:424 is clearly intended to cover strain variation within the organism.

In light of the above, it is clear that the specification does provide an enabling disclosure with respect to sequences having at least 95% identity to SEQ ID No:424. Withdrawal of the outstanding 35 U.S.C. §112, first paragraph, rejection is accordingly respectfully requested.

II. ALLOWABLE SUBJECT MATTER

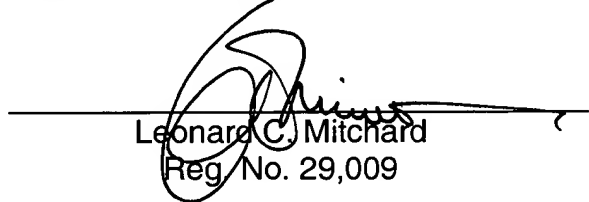
It is noted with appreciation that claims 37 and 41 are allowable. With the arguments presented above, it is believed that all of the claims in this case are now in allowable condition. Early notice to that effect is awaited.

Favorable action on this application is respectfully requested.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By: _____


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Attachments: Copies of sequences from *P. gingivalis* strains W83 (Accession No. AAQ65420) and W50 (Accession No. CAA10226.1).



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☐ 1: [AA065420](#) Reports ragA protein [Por...[gi:34396353]BLink, Conserved
Domains, Links

LOCUS AA065420 1017 aa linear BCT 02-SEP-2003

DEFINITION ragA protein [Porphyromonas gingivalis W83].

ACCESSION AA065420

VERSION AA065420.1 GI:34396353

DBSOURCE accession [AE017172.1](#)

KEYWORDS

SOURCE Porphyromonas gingivalis W83

ORGANISM Porphyromonas gingivalis W83

Bacteria; Bacteroidetes; Bacteroidetes (class); Bacteroidales;
Porphyromonadaceae; Porphyromonas.

REFERENCE 1 (residues 1 to 1017)

AUTHORS Nelson,K., Fleishmann,R., DeBoy,R., Paulsen,I., Fouts,D., Eisen,J.,
Daugherty,S., Dodson,R., Durkin,A., Gwinn,M., Haft,D., Kolonay,J.,
Nelson,W., White,O., Mason,T., Tallon,L., Cray,J., Granger,D.,
Tettelin,H., Dong,H., Calvin,J., Duncan,M., Dewhirst,F. and
Fraser,C.TITLE Complete Genome Sequence of the Oral Pathogenic Bacterium
Porphyromonas gingivalis Strain W83

J. Bacteriol. 185 (18), 5591-5601 (2003)

PUBMED 12949112

REFERENCE 2 (residues 1 to 1017)

AUTHORS Nelson,K., Fleischmann,R., DeBoy,R., Paulsen,I., Fouts,D., Eisen,J.,
Daugherty,S., Dodson,R., Durkin,A., Gwinn,M., Haft,D., Kolonay,J.,
Nelson,W., White,O., Mason,T., Tallon,L., Gray,J., Granger,D.,
Tettelin,H., Dong,H., Calvin,J., Duncan,M., Dewhirst,F. and
Fraser,C.

TITLE Direct Submission

JOURNAL Submitted (29-OCT-2002) The Institute for Genomic Research, 9712
Medical Center Dr., Rockville, MD 20850, USA

COMMENT Method: conceptual translation.

FEATURES Location/Qualifiers

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Protein

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CDS

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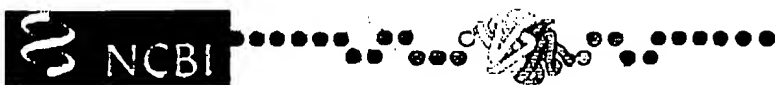
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Blink, Conserved
Domains, Links

LOCUS CAA10226 1017 aa linear BCT 23-DEC-2002

DEFINITION receptor antigen (RagA) [Porphyromonas gingivalis].

ACCESSION CAA10226

VERSION CAA10226.1 GI:3901098

DBSOURCE embl locus PC1130872, accession AJ130872.1

KEYWORDS

SOURCE Porphyromonas gingivalis

ORGANISM Porphyromonas gingivalis

Bacteria; Bacteroidetes; Bacteroidetes (class); Bacteroidales;
Porphyromonadaceae; Porphyromonas.

REFERENCE 1

AUTHORS Hanley, S.A., Aduse-Opoku, J. and Curtis, M.A.

TITLE A 55-kilodalton immunodominant antigen of Porphyromonas gingivalis
W50 has arisen via horizontal gene transfer

JOURNAL Infect. Immun. 67 (3), 1157-1171 (1999)

PMID 10024556

REFERENCE 2 (residues 1 to 1017)

AUTHORS Hanley, S.A.

TITLE Direct Submission

JOURNAL Submitted (17-NOV-1998) Hanley S.A., MRC Mol. Path., Oral
Microbiology, St. Bartholomew's & The Royal Lon. Sch. of Med. &
Dentistry, 32, Newark Street, London, E1 2AA, UK

FEATURES

source Location/Qualifiers

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